

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Botany</a>
Manuscript Number:	Ms_AJRIB_125273
Title of the Manuscript:	The Growing Role of Artificial Intelligence in Plant Science
Type of the Article	

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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## Review Form 3

### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript is significant for the scientific community as it highlights the transformative potential of AI in addressing pressing agricultural challenges, such as climate change and food security. Its comprehensive exploration of AI applications in plant science offers valuable insights into precision farming, climate modeling, and resource optimization, making it a crucial resource for researchers and practitioners alike. I appreciate the manuscript's balanced approach, which not only showcases the benefits of AI technologies but also addresses ethical considerations and challenges in their implementation. However, the inclusion of more real-world case studies and technical details would enhance its overall impact and applicability.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title "The Growing Role of Artificial Intelligence in Plant Science" is suitable as it accurately reflects the focus of the article on the increasing significance of AI in the field of plant science.	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The abstract is comprehensive but could be improved with a few adjustments. Consider adding specific examples of AI applications in plant science and emphasizing the potential outcomes, such as enhanced sustainability and food security. Including a brief mention of challenges, like data privacy concerns or algorithmic bias, would provide a balanced perspective. Lastly, a conclusive statement highlighting the overarching importance of AI in addressing agricultural challenges would strengthen the abstract's impact.	
<b>Are subsections and structure of the manuscript appropriate?</b>	Yes, the subsections and overall structure of the manuscript are appropriate. The organization allows for a logical flow of information, covering key areas such as AI applications in plant science, climate modeling and adaptation, resource optimization, and ethical considerations. This structure facilitates a clear understanding of the topic while making it easy for readers to follow the discussion. However, consider ensuring consistent formatting and headings for better readability.	
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>	This manuscript is scientifically robust, effectively integrating current research on artificial intelligence (AI) in plant science. It provides a thorough review of AI's applications in enhancing agricultural practices, supported by relevant studies. The discussion of ethical considerations also demonstrates a commitment to responsible AI usage, adding to the manuscript's technical soundness.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :	The references in the manuscript appear to be sufficient and include recent studies relevant to the intersection of AI and plant science. However, to enhance the literature review, it may be beneficial to include additional references that focus on emerging AI technologies or case studies demonstrating practical applications in agriculture. Regarding the language quality, the manuscript is well-written and suitable for scholarly communication. The terminology is appropriate for the audience, and the flow of information is clear, making it accessible to both specialists and general readers. Minor grammatical improvements could further enhance readability.	
<b>Minor</b> REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language and English quality of the article are generally suitable for scholarly communication. The manuscript is well-structured, uses appropriate academic terminology, and conveys complex ideas clearly. Minor revisions for grammar and phrasing could further improve its readability and flow, but overall, it meets the standards for scholarly writing.	
<b>Optional/General</b> comments		

### PART 2:

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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